

CF-2 Fraction Collector

Sold complete and ready-to-use, the CF-2 is the perfect collector for both large volume open column chromatography and preparative HPLC. The CF-2 Fraction Collector includes a drop counter and a set of racks for up to 174 tubes (12 to 13 mm OD). Cold-room compatible, the CF-2 uses less than 10 watts of power and presents a minimal load to the cooling system while keeping its interior free of condensation. Connected to the Model 280 UV Monitor, the CF-2's powerful peak separator allows you to set different fraction sizes for the peak and non-peak materials. By incorporating the optional diverter valve, you can opt to collect only the peak fractions to maximize the utility of each tube and reduce your post-collection work. Combining the Spectra/Chrom Chart Recorder with the integrated Fraction Collector and UV Monitor, a tick mark can be placed on the recorder trace to indicate each tube change and make finding peaks easy. Optional tube rack sets are available for different size tubes or vials.

Features & Benefits

- Volume or period defined fractions
- Interfaces with most detectors
- Includes tube racks for 174 fractions
- CE marked & complies with RoHS

Product Specifications

Dimensions:	28 x 12 x 40 cm
Weight:	5 kg (10 lb)
Fraction Size:	1-9999 drops in 1 drop increments or 6 sec – 999 min; 59 sec in 1 sec increments
Change Rate:	0.35 sec max within 12/13 mm tube rack
Operating Temp:	0–40 °C (cold-room compatible)
Power:	115 VAC or 230 VAC, 50/60 Hz

IS-95 Interval Sampler

Ideal for QC sampling & reactor testing, the IS-95 Interval Sampler collects periodic samples of liquids. Simply provide the interval for sampling & the sample size and it does the rest. It has the capability to control either a valve for sampling from a low pressure line or elevated tank; or a pump when the sample has to be lifted to be collected. The IS-95 Interval Sampler includes a drop counter & drop former that allows you to size your samples based on either the number of drops or on the collection duration. If large samples are required, a single collection can span several tubes. The IS-95 Interval Sampler also includes remote control capability that allows you to start & stop the sampler, as well as follow collection progress from an external controller. The IS-95 collects up to 173 samples in 12 or 13 mm OD tubes maintained in a set of rotating racks. The rack set is not included & must be purchased separately. See ordering information for the preferred rack sets available for different tube or vial sizes.

Features & Benefits

- Programmable volume or time sampling
- Up to 173 samples in 12 to 13 mm tubes
- Tube sizes from 10 to 28 mm OD
- Remote operation by external controller
- CE marked & complies with RoHS

Product Specifications

Dimensions:	28 x 12 x 40 cm
Weight:	5 kg (10 lb)
Sample Size:	1-9999 drops in 1 drop increments or 6 sec–999 min; 59 sec in 1 sec increments
Sample Interval:	6 sec–999 min; 50 sec in 1 sec increments
Operating Temp:	0–40 °C (cold-room compatible)
Power:	115 VAC or 230 VAC, 50/60 Hz



Ordering Information: Chromatography Instruments (Fraction Collector and Interval Sampler)

		Part No.	Description	Voltage	Includes:
Fraction Collector		124845	CF-2 Fraction Collector	115 V, 50/60 Hz	rack sets (124853) & drop counter
		124846		230 V, 50/60 Hz (CE & RoHS)	
Interval Sampler		141200	IS-95 Interval Sampler	115 V, 50/60 Hz	drop counter requires rack set for operation
		141202		230 V, 50/60 Hz (CE & RoHS)	
		Part No.	Description	Qty	For Use With:
Accessory Parts		124838	High Flow Diverter Valve		CF-2 & IS-95
		124848	2-Way Shut-off Valve	1/pkg	
		124849	3-Way Diverter Valve		
		124853	Racks for 12 & 13 mm tubes, up to 174 fractions for CF-2 or 173 samples for IS-95	30 racks/set	
		124854	Racks for 10 to 16 mm tubes, up to 116 fractions for CF-2 or 115 samples for IS-95		
		124855	Racks for 17 & 18 mm tubes, up to 116 fractions for CF-2 or 115 samples for IS-95		
		124856	Racks for 28 mm scint. vials, up to 42 fractions for CF-2 or 41 samples for IS-95	15 racks/set	
		124858	Dust Cover for Fraction Collector	1/pkg	
	124874	Mast Package for Fraction Collector	1/pkg	CF-2	
	124876	4-Column Adaptor (requires mast package)			



Spectra/Chrom® Model 280 UV Monitor

The Spectra/Chrom Model 280 UV Monitor is a fixed-wavelength flow-through spectrophotometer, ideal for chromatographic detection in both HPLC and low pressure systems. The Model 280 features a direct reading digital output and a dual-beam optical system that can automatically subtract even a changing solvent background. This detector works with the CF-2 Fraction Collector to separate the peak and non-peak material or, if preferred, to collect just the peaks. The UV Monitor also provides analog outputs for both the Spectra/Chrom Chart Recorder and an integrator. Sold complete & ready-to-use, the Model 280 UV Monitor includes a 5 mm path-length flow-cell, filters for 254 & 280 nm operation, a set of tubing fittings and recorder cable.

Features & Benefits

Dual-beam optics for
baseline subtraction
254 & 280 nm operation
(<10 sec change)
 3×10^{-4} AU detection limit
CE marked & complies with RoHS

Product Specifications

Dimensions / Weight: 24 x 12 x 20 cm / 4.1 kg (9 lb)
Stability after 30 min: 0.0005 AU/hr maximum drift
Noise after 30 min: <0.0003 AU at 254 nm
with dry flow-path
Absorbance Range: 0.01–1.0 AU full-scale
Operating Temp: 0–40°C (cold-room compatible)
Power: 115 VAC or 230 VAC, 50/60 Hz



Spectra/Chrom® Chart Recorder

The ideal complement to the Model-280 UV Monitor, the Spectra/Chrom Chart Recorder is an all-purpose laboratory strip-chart recorder used to record chromatograms and other time-varying signals. The Chart Recorder holds 15 meters of paper for extended recording times and to reduce the frequency of paper changes. Both calibrated scales and variable scales can be set by the recorder controls. The zero offset allows you to position the recorder zero point anywhere on the chart.

Features & Benefits

12 chart speeds from
1cm/hr to 30 cm/min
Zero Offset for chart repositioning
Calibration of scales & variables
Compatible with
Model-280 UV Monitor
CE marked & complies with RoHS

Product Specifications

Full Scale Span: 1, 2, 5, 10, 20, 50 mV,
0.1, 0.2, 0.5, 1, 2 and 5 V
Full-Scale Response: < 0.5 sec
Pen Type: Disposable fiber tip
Chart Speeds: 1, 2, 5, 10, 20, 30 cm/hr & cm/min
Power Requirements: 115 VAC or 230 VAC at < 0.1 A
Paper Dimensions: 15 m long x 20 cm wide
Power: 115 VAC or 230 VAC, 50/60 Hz



S-3 Solvent Saver System

The microprocessor controlled S-3 is a solvent recycler specifically designed to reduce isocratic solvent consumption by up to 90% for both LPLC and HPLC, providing a significant savings in both solvent acquisition and disposal costs. It uses a sensitive level sensor to shunt the eluant to waste when the output exceeds a user-defined level. After the contaminant (typically a sample component) passes and the output from the system detector drops below the pre-set level, the uncontaminated solvent is routed back to the solvent reservoir for re-use. The S-3 works equally well with UV, RI and other detectors with chart recorder outputs, handles up to a 50% over-range and continuously displays its status and signal level. The recycle valve can also be set manually or remotely to remain in either the recycle or waste position which is indicated by the Q.A. validation signal. The S-3 Solvent Saver comes complete with control console, valve, signal cable and tubing fittings.

Features & Benefits

Works with both UV and RI detector
Q.A. validation signal
Both manual & automatic operation
CE marked & complies with RoHS

Product Specifications

Dimensions: 6.7 x 4 x 8.3 cm
Weight: 1 kg (0.5 lb)
Input: 1 V or 10 mV full-scale (user selectable)
Set Point: 0-0.5 V in 0.01 V steps or
0-5 mV in 0.1 mV steps
Remote Inputs: Contact closure or TTL low inputs
for forced waste, forced recycle & auto-zero
Remote Output: Open collector output to verify
valve operation
Hysteresis: 0-9.9% full-scale in 0.1% steps
Operating Temp: 0-40°C (cold-room compatible)
Power: 115 VAC or 230 VAC, 50/60 Hz

Ordering Information: Chromatography Instruments (UV Monitor, Chart Recorder & Solvent Saver System)

		Part No.	Description	Voltage	Includes:		
Chromatography Instruments	UV Monitor	142600	UV Monitor, Model 280	115 V, 50/60 Hz	5mm path-length flow-cell		
		142602		230 V, 50/60 Hz (CE & RoHS)			
	Solvent Saver	142100	S-3 Solvent Saver System	115 V, 50/60 Hz	Signal cable & valve		
		142102		230 V, 50/60 Hz (CE & RoHS)			
	Chart Recorder	124700	Chart Recorder, Single Pen	115 V, 50/60 Hz	1 pen & 1 roll of paper		
		124701		230 V, 50/60 Hz (CE & RoHS)			
		124705	Chart Recorder, Dual Pen	115 V, 50/60 Hz	Set of pens & 1 roll of paper		
		124706		230 V, 50/60 Hz (CE & RoHS)			
			Part No.	Description	Qty	For Use With:	
	Chromatography Instruments	Accessory Parts	142610	Mast Bracket for Model 280	1/pkg	Model 280	
142615			Model 280 to CF-2 Cable, for event marking				
142625			Model 280 Universal Remote Cable				
142630			Model 280 Cable for event marking				
142640			10 mm Path-length PEEK Flow-cell				
142642			5 mm Path-length PEEK Flow-cell				
142644			2 mm Path-length PEEK Flow-cell				
124710			Roll of Trace Paper	15 m			Chart Recorder
124711			Red pen for pen 1 (short)	1/pkg			Dual Pen Chart Recorder
124712			Blue pen for pen 2 (long)				
124714	Black Pen	1/pkg	Single Pen Chart Recorder				